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February 1, 2018

The Honorable Jocelyn G. Boyd
Chief Clerk / Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: Amended Project Development Application of Duke Energy Carolinas, LLC for
Approval of Decision to Incur Nuclear Generation Pre-Construction Costs
PSCSC Docket No. 2011-20-E

Dear Mrs. Boyd:

Attached is the report of activities and expenditures for Lee Nuclear Station for the period
ending December 31, 2017.

If you have any questions, please do not hesitate to contact me.

Respectfully submitted,

Heather Shirley Smith

Enclosure

cc: Ms. Nanette Edwards, Office of Regulatory Staff
Ms. Dawn Hipp, Office of Regulatory Staff
Ms. Shannon Bowyer Hudson, Esq., Office of Regulatory Staff
Mr. Michael Seaman-Huynh, Office of Regulatory Staff
Parties of Record

Attachment 1:

PSCSC Report
Preconstruction Costs for Lee Nuclear Station Project Development Activities
January 1, 2011 – December 31, 2017

Task Description	01/01/2011-12/31/2016	01/01/2017-6/30/2017	06/30/17-09/30/17	Project Totals to Date
COLA Preparation	\$ (254,088)	\$ -	\$ -	\$ 25,067,000
NRC Review & Hearing Fees	\$ 61,668,621	\$ 459,312	\$ -	\$ 110,488,035
Land and Right-of-way Purchases	\$ 1,601,087	\$ -	\$ -	\$ 44,341,359
Pre-construction and Site Preparation	\$ 1,673,893	\$ 14,115	\$ -	\$ 21,687,392
Supply Chain, Construction Planning, and Detailed Engineering	\$ 57,675,449	\$ 60,476	\$ -	\$ 79,943,701
Operational Planning	\$ 3,658,280	\$ 16,793	\$ -	\$ 4,794,175
Post COL	\$ -	\$ 1,541,284	\$ 408,622	\$ 1,949,906
Allocate	\$ 12,983,184	\$ 144,254	\$ -	\$ 22,237,518
AFUDC	\$ 172,449,346	\$ 26,364,583	\$ 9,209,699	\$ 247,607,083
TOTAL	\$ 311,455,772	\$ 28,600,817	\$ 9,618,321	\$ 558,116,168

The activities included in each category are as follows:

COLA Preparation – includes Duke labor, expenses and contract support for preparation of the Combined Construction and Operating License (COL) Application tendered to the Nuclear Regulatory Commission (NRC) on December 13, 2007. The NRC determined the application was suitable for review and docketed the application on February 25, 2008.

NRC Review and Hearing Fees – includes the cost of the NRC review fees, Duke labor and expenses, contract labor and legal support required to support the NRC review of the Lee Nuclear Station COL application, and preparation for the Advisory Committee on Reactor Safeguards Subcommittee Hearing. Category also includes interactions with South Carolina Department of Health and Environmental Control (SCDHEC) and the US Army Corps of Engineers (USACE), as required to move the environmental permit applications forward. The Lee project received the National Pollutant Discharge Elimination System (NPDES) Operations permit on July 17, 2013. The Final Environmental Impact Statement was issued by the NRC on December 23, 2013, and the 401 Water Quality Certification was issued on January 2, 2014. The Final Environmental Impact Statement prepared by the U.S. Forest Service to support mitigation activities in Sumter National Forest was issued on December 5, 2014. Lee Nuclear Station received its USACE 404 Permit on September 29, 2015.

Land and Right-of-Way Purchases – includes the purchase of land required for the Lee site and rail right-of-ways. Category also includes cost of purchasing additional land for a supplemental cooling pond in event of severe drought, as well as costs for surveying the selected transmission right-of-way.

Pre-construction and Site Preparation – includes site activities to both maintain the site and prepare the site for construction. Site preparation activities included: dewatering and cleanup of the excavated area, site remediation activities required to identify and properly dispose of hazardous wastes, and costs associated with the demolition and removal of unusable structures. Necessary maintenance of existing rail bed and required Make-up Pond B spillway repair were completed. Engineering of offsite infrastructure for potable water, sewer, and rail spur; and, geotechnical evaluations (needed for engineering) have been completed. Engineering for bringing communications to the site is also included in this category. Engineering of necessary traffic improvements was brought to 85% completion by December 2013. Ongoing and continuing activities include: site security, utilities and miscellaneous site maintenance.

Supply Chain, Construction Planning and Engineering – includes activities associated with working with the supplier to negotiate an Engineering, Procurement and Construction (EPC) agreement. Negotiations in 2008 did not result in an executed contract. Conceptual site specific engineering and construction planning activities necessary to develop a complete project definition are included in this category. Continuing construction planning activities serve to further develop construction plans and keep the construction plans in line with latest engineering. Detailed site specific engineering began in January 2011 and was brought to 70% completion in December 2013. Commercial building design activities started in June 2012. Design of the first six commercial buildings was completed in December 2013.

Operational Planning – includes activities associated with operator and plant staff training, including costs associated with the Knowledge and Abilities Catalog, required for operator license examinations for AP1000 plants, and the standardization of the nomenclature in the Westinghouse Master Equipment List (MEL). Continuing activities include: supporting operations program development, such as Quality Assurance (QA) Program, and the review of approximately 500 procedures. The training materials, operational programs, and operating procedures are all being developed in concert with other AP1000 utilities within the APOG framework. The *Operational Planning* category also includes generation of administrative procedures that must be in place upon receipt of COL from NRC.

Post COL – A Combined Construction Permit and Operating License (COL) was received for the Lee AP1000 Project in December 2016. Design finalization and first-of-a-kind construction issues at the lead plants (Summer 2 and 3, Vogtle 3 and 4) have required Westinghouse to make numerous changes to the AP1000 design. Design changes continue to be issued as the lead plants advance towards completion. License change packages were assembled to start the process of aligning the Lee COL with the lead plant COL. Construction of the Summer units was cancelled by the owners in 2017. Duke Energy Carolinas filed its Request for Approval to Cancel the Lee Nuclear Project on August 25, 2017 in North Carolina Utilities Commission Docket Nos. E-7, Sub 819 and E-7, Sub 1146 and provided notice in the Public Service Commission of South Carolina Docket Number 2011-20-E. Submittal of an annual FSAR update and recurring regulatory reporting are required to maintain the COL.

Allocate – Labor burdens and allocated labor. This category had previously been manually spread to create the SCUC report. It has been determined that it is more accurate to show these charges in a separate bucket.

*Charges for LCOLAEPC (Engineering, Procurement and Construction Release to COL) are now being reported in Supply Chain, Construction Planning, and Detailed Engineering.